

Lab4

Code: Create the interactive webpages using Javascript.

```
<!DOCTYPE html>
<html>
<head>
  <title>Lab 3</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      padding: 20px;
    }
    button {
      margin: 5px;
      padding: 8px 12px;
      border: none;
      border-radius: 6px;
      background: #0077ff;
      color: white;
      cursor: pointer;
    }
    button:hover {
      background: #005fcc;
    }
    .output {
      margin-top: 15px;
      padding: 10px;
      border: 1px solid #ccc;
      border-radius: 6px;
      background: #f9f9f9;
      min-height: 30px;
    }
    .demoClass {
      padding: 5px;
      margin: 5px;
      border-radius: 4px;
      background: #eee;
    }
  </style>
</head>
<body>
  <h2>Experiment No 3: Interactive Webpage with JavaScript</h2>

  <button id="btnVar">Show Variables</button>
  <button id="btnLoop">Run Loop</button>
```

```
<div id="output" class="output">Output will appear here...</div>
```

```
<script>
```

```
const output = document.getElementById("output");
const btnVar = document.getElementById("btnVar");
const btnLoop = document.getElementById("btnLoop");
```

```
btnVar.addEventListener("click", () => {
  var x = 10;
  let y = 20;
  const PI = 3.14;
  output.innerHTML = `var x = ${x}, let y = ${y}, const PI = ${PI}`;
});
```

```
btnLoop.addEventListener("click", () => {
  let text = "Loop Output:<br>";
  for (let i = 1; i <= 5; i++) {
    text += "For loop i = " + i + "<br>";
  }
  let j = 0;
  while (j < 3) {
    text += "While loop j = " + j + "<br>";
    j++;
  }
  let k = 0;
  do {
    text += "Do-while loop k = " + k + "<br>";
    k++;
  } while (k < 2);
```

```
const arr = ["A", "B", "C"];
for (const val of arr) {
  text += "For-of value = " + val + "<br>";
}
```

```
const obj = {a:1, b:2, c:3};
for (const key in obj) {
  text += `For-in key = ${key}, value = ${obj[key]}<br>`;
}
```

```
output.innerHTML = text;
});
```

```
</script>  
</body>  
</html>
```

Output:

Experiment No 3: Interactive Webpage with JavaScript

Show Variables

Run Loop

```
var x = 10, let y = 20, const PI = 3.14
```

Experiment No 3: Interactive Webpage with JavaScript

Show Variables

Run Loop

```
Loop Output:  
For loop i = 1  
For loop i = 2  
For loop i = 3  
For loop i = 4  
For loop i = 5  
While loop j = 0  
While loop j = 1  
While loop j = 2  
Do-while loop k = 0  
Do-while loop k = 1  
For-of value = A  
For-of value = B  
For-of value = C  
For-in key = a, value = 1  
For-in key = b, value = 2  
For-in key = c, value = 3
```